Windows®. Life without Walls™.
Fujitsu recommends Windows 7.

DATASHEET
FUJITSU ESPRIMO P5731 E85+ DESKTOP PC

THE EXPANDABLE BUSINESS WORKHORSE

ESPRIMO P5731 E85+
The ESPRIMO P5731 E85+ combines high scaling with state-of-the-art Intel® technology and DDR3 memory support: it meets the daily challenges of your business applications. Almost inaudible thanks to its innovative fan concept. The optimized design makes installing and removing components child's play. Downtimes are reduced to a minimum. The use of environmentally conscious material means that the ESPRIMO P5731 E85+ today already meets the environmental standards of tomorrow. Additionally equipped with an 87% efficient power supply helping you to save energy costs. It is a good investment for you and the environment.

MICROTOWER
Maximum performance and optimal extendability
- Top-quality, high-value microtower, 6 drive bays, 4 PCI/PCI express interfaces

ENERGY SAVING
Low power consumption and low costs, without any loss in performance
- State-of-the-art technology, low energy-consuming processors, up to 87% efficient power supply and enhanced power management settings

ENVIRONMENTALLY COMPATIBLE PRODUCT
Your contribution to environmental protection for the continued existence of our planet
- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

SILENT OPERATION
Pleasant working environment due to an extremely quiet system
- Innovative hardware design, optimized cooling concept

SERVICEABLITIY
Easy to extend and optimal user-friendliness without any additional tools
- Easy access to all replaceable and expandable components

COMPONENTS

PROCESSOR	Intel® Core™2 Quad processor Q9650 (4 Cores / 4 Threads, 3.0 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9550 (4 Cores / 4 Threads, 2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9505 (4 Cores / 4 Threads, 2.83 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9400 (4 Cores / 4 Threads, 2.66 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q8300 (4 Cores / 4 Threads, 2.5 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8600 (2 Cores / 2 Threads, 3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8500 (2 Cores / 2 Threads, 3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8400 (2 Cores / 2 Threads, 3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E7600 (2 Cores / 2 Threads, 3.06 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7500 (2 Cores / 2 Threads, 2.93 GHz, 3 MB, 1066 MHz)
	Intel® Pentium® processor E6300 (2 Cores / 2 Threads, 2.8 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5500 (2 Cores / 2 Threads, 2.8 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5400 (2 Cores / 2 Threads, 2.7 GHz, 2 MB, 800 MHz)
	Intel® Celeron® processor E3200 (2 Cores / 2 Threads, 2.4 GHz, 1 MB, 800 MHz)
	Intel® Celeron® processor 450 (1 Core / 1 Threads, 2.2 GHz, 512 KB, 800 MHz)
OPERATING SYSTEM	
Operating system optional preinstalled	Microsoft® Windows® 7 Home Premium Microsoft® Windows® 7 Professional TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® Vista®
Operating system notes	All Windows® 7 versions are Office 2007 ready. Please be aware that your Microsoft support for Windows XP is limited due to the fact that the end of the Extended Support Phase has been reached. Additionally, please be aware that Fujitsu Technology Solutions may only provide limited support for Windows XP due to the limited Windows XP support offered by Microsoft because of the discontinued Windows XP certification on system level.
MEMORY MODULES	1 GB (1 module(s) 1 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
HARD DISK DRIVES (INTERNAL)	SSD SATA, 128 GB, 2.5-inch
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
GRAPHICS ADD ON CARDS (OPTIONAL)	ATI Radeon® HD 3450, 256 MB
	DP to DVI-D (single link) Adapter Cable
	DVI-D + DisplayPort Extension Adapter
	DVI Extension Adapter
	NVIDIA® GeForce® 9300GE, 256 MB
	NVIDIA® GeForce® 9300GE, 512 MB
	NVIDIA® GeForce® 9300GE display port low profile, 512 MB
	NVIDIA® GeForce® 9500GS, 512 MB
	NVIDIA® Quadro® NVS 290, 256 MB

DRIVES (OPTIONAL)	1.44 MB Floppy
	Blu-ray Disc™ Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, 3.5-Inch
INTERFACE ADD ON CARDS/COMPONENTS (OPTIONAL)	
	WLAN III, 802.11g/Draft-n (Windows only)
	Parallel Interface
	Modem adapter kit (EU)
	Modem 56k incl. RJ11 modem cable
	Gigabit Ethernet PCIe x1
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092
Base unit	ESPRIMO P5731 E85+
MAINBOARD	
Mainboard type	D3011
Formfactor	µBTX
Chipset	Intel® Q43
Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	16 GB
Memory frequency	1066 MHz
Memory notes	Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Intel® 82567 LF
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound
I/O CONTROLLER ON BOARD	
Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit AHCI
INTERFACES	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	12
USB front	2
USB rear	6
USB internal	4, thereof 2 optional rear
VGA	1
DisplayPort	1 (optional)
DVI	1 (optional)

INTERFACES	
Serial (RS-232)	1 (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
Interface Module notes	Anytime USB charge functionality
INPUT DEVICE / COMPONENTS	
	Optical USB tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
DRIVE BAYS	
Drive bays total	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2
SLOTS	
PCI-Express 2.0 x16	1 x (230 mm) FlexySlot
PCI-Express x4 (mech. x8)	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) full height
GRAPHICS ON BOARD	
Graphics brand name	Intel® GMA 4500
Shared video memory	up to 1759 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DisplayPort)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel
Graphics features	DirectX 10 HDCP support OpenGL® 2.0
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
ELECTRICAL VALUES	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 85% / 87% / 85%)
	0-Watt mode with hard-off switch

ELECTRICAL VALUES	
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of single power supply	300 W
Power factor correction/active power	active
Monitor outlet	No
POWER CONSUMPTION	
Power consumption note	See white paper Energy Consumption 0-Watt mode with hard-off switch
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=e133113b-1737-4fe9-8406-c6a69cfd141c
HEAT DISSIPATION	
Heat dissipation notes	See white paper Energy Consumption
NOISE FOR STANDARD CONFIGURATION (HDD, ODD, FDD)	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load (Blue angel requirement)	4.5 B / 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.7 B / 21 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 4: High load	3.6 B / 21 dB(A)
Noise Operation mode 5: Office applications	3.7 B / 21 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position
DIMENSIONS / WEIGHT / ENVIRONMENTAL	
Dimensions (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C
COMPLIANCE	
Product	ESPRIMO P5731
Model	MI3W-D3011
Germany	GS optional
Europe	CE Nordic Swan
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx
ADDITIONAL SOFTWARE	
Additional software (preinstalled)	Nero Essentials S (burning software)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)

MISCELLANEOUS	
	Keyboard on (Fujitsu keyboard required) Thermal management
COMPATIBILITY (REFERENCES)	
	DMI 2.0 PC 2001 WMI 1.5 USB 2.0
MANAGEABILITY	
Manageability features	ASF 2.0 (Alert Standard Format) DeskUpdate Driver management PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrator Software (tested) Wake up from S5 (off mode) Intrusion switch (optional) Intel® Standard Manageability
Manageability type	DeskView 10.x client management including:
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Advanced alerts (ASF implementation) Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
SECURITY	
Physical security	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
System security	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of external interfaces
User security	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader
SERVICEABILITY	
	FlexySlot EasyFix EasyChange for HDD EasyChange for optical drives
PACKAGING INFORMATION	
Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	210 g
Material - Weight (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process
WARRANTY	
Standard Warranty	1 year
Service level	Bring-In / On-Site Service (depending on country)

MAINTENANCE AND SUPPORT SERVICES - THE PERFECT EXTENSION

WARRANTY

Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

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FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu ESPRIMO P5731 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

MORE INFORMATION

Learn more about Fujitsu ESPRIMO P5731 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/ESPRIMO

FUJITSU GREEN POLICY INNOVATION

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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